

PTO-1449 REPRODUCED

ATTORNEY DOCKET NO.
1884.2021-001APPLICATION NO.
10/763,573INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

June 11, 2004

(Use several sheets if necessary)

FIRST NAMED INVENTOR
Neil J. GoldfineFILING DATE
January 22, 2004EXAMINER
not assignedCONFIRMATION NO.
4895GROUP
2857

U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL	REF. NO.	DOCUMENT NUMBER Number-Kind Code (if known)	ISSUE DATE / PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT
64	AA	US 4,998,208 A	03/05/1991	Buhrow et al.
96	AB	US 5,210,704 A	05/11/1993	Husseiny
64	AC	US 6,420,867 B1	07/16/2002	Goldfine et al.
96	AD	US 2002/0163333 A1	11/07/2002	Schlicker et al.
	AE			
	AF			
	AG			
	AH			
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	AK			
	AA2			
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	AA3			
	AB3			
	AC3			

EXAMINER

S. Cherry

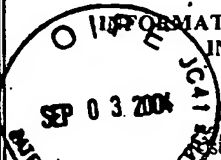
DATE CONSIDERED

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FOREIGN PATENT DOCUMENTS					
		DOCUMENT NUMBER Country Code-Number-Kind Code (if known)	DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT	TRANSLATION YES NO
54	AL	EP 1 353 252 A2	10/15/2003	The Boeing Company	
	AM				
	AN				
	AO				
	AP				
	AQ				
	AL2				
	AM2				
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	AN4				
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	AP4				
	AQ4				

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
9C	AR	Lichtenwalner, P.F., <i>et al.</i> , "Information Processing for Aerospace Structural Health Monitoring," <i>Proc. SPIE - Int. Soc. Opt. Eng., USA</i> , vol. 3326 (1998).
9C	AS	Altynova, M.M., <i>et al.</i> , "Engineering Corrosion Prediction Model for Aircraft Structures," 6 th Joint FAA/DoD/NASA Aging Aircraft Conference, September 16-19, 2002, pp. 1-25.
9C	AT	Munns, T.E., <i>et al.</i> , "Structural Health Monitoring: Degradation Mechanisms and System Requirements," <i>IEEE</i> , vol. 2, October 7, 2000, pp. 6.C.2-1 - 6.C.2-8.
9C	AU	Chockie, A., <i>et al.</i> , "Effective Maintenance Practices to Manage System Aging," <i>Proc., Reliability and Maintainability Symposium, Las Vegas, NV</i> , (1992).
9C	AV	Goldfine, N., Zilberstein, V., Washabaugh, A., "Material Condition Monitoring Using Embedded and Scanning Sensors for Prognostics," presentation at the 57th MFPT Conference, Virginia Beach, VA 2003.
9C	AW	Goldfine, N., Zilberstein, V., Cargill, S., Schlicker, D., Shay, I., Washabaugh, A., Tsukernik, V., Grundy, D., Windoloski, M., "MWM-Array Eddy Current Sensors for Detection of Cracks in Regions with Fretting Damage," <i>Materials Evaluation, ASNT</i> , Vol. 60, No. 7, pp 870-877; July 2002.
9C	AX	Washabaugh, A., Zilberstein, V., Lyons, R., Walrath, K., Goldfine, N., Abramovici, E., "Fatigue and Stress Monitoring Using Scanning and Permanently Mounted MWM-Arrays," 29th Annual Review of Progress in QNDE; Bellingham, Washington; July 2002.
9C	AY	Goldfine, N., Schlicker, D., Sheiretov, Y., Washabaugh, A., Zilberte, V., Lovett, T. "Conformable Eddy-Current Sensors and Arrays for Fleetwide Gas Turbine Component Quality Assessment," published in <i>ASME Journal of Engineering for Gas Turbines and Power</i> , Vol. 124, No. 4, pp. 904-909, October 2002.
9C	AZ	Kaplan, M.P. and Wolff, T.A., "Life Extension and Damage Tolerance of Aircraft," in <i>Fatigue and Fracture, ASM Metals Handbook</i> , Tenth Edition, pp. 557-565, 1996.
9C	AR2	Swift, T., "Damage Tolerance Certification of Commercial Aircraft," <i>ASM Handbook</i> , 10th Edition, 1996.
9C	AS2	DOE Phase II Proposal, titled "Intelligent Probes for Enhanced Non-Destructive Determination of Degradation in Hot-Gas-Path Components," Topic #44c, dated March 23, 2002.

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SC	AT2	Air Force Phase II Proposal, titled "Detection and Imaging of Damage, Including Hydrogen Embrittlement Effects in Landing Gear and Other High-Strength Steel Components," Topic #AF01-308, dated April 9, 2002.
SC	AU2	NASA Phase II Proposal, titled "Shaped Field Giant Magnetoresistive Sensor Arrays for Materials Testing," Topic #01-II A1.05-8767, dated May 2, 2002
SC	AV2	Navy Phase I Proposal, titled "Observability Enhancement and Uncertainty Mitigation for Engine Rotating Component PHM," Topic #N02-188, dated August 14, 2002.
SC	AW2	Final Report submitted to NASA, titled "Shaped Field Giant Magnetoresistive Sensor Arrays for Materials Testing," dated May 3, 2002.
SC	AX2	Final Report submitted to Air Force, titled "Detection and Imaging of Damage, Including Hydrogen Embrittlement Effects in Landing Gear and Other High-Strength Steel Components," dated July 3, 2002.
SC	AY2	Technical Report titled "MWM Examination of Twenty X2M Steel Fatigue Specimens After Abusive Grinding," US ARMY Final Report 08162002.
SC	AZ2	Technical paper titled "Friction Stir Weld Inspection through Conductivity Imaging using Shaped Field MWM -Arrays," Proceedings of the 6th International Conference on Trends in Welding, Callaway Gardens, GA; ASM International, January 2003.
SC	AR3	Technical paper titled "MWM Eddy Current Sensor Array Imaging of Surface and Hidden Corrosion for Improved Fleet Readiness and Cost Avoidance," presented at U.S. Army Corrosion Conference, Clearwater Beach; FL, February 11-13, 2003.
SC	AS3	Technical paper titled "MWM Eddy Current Sensor Array Characterization of Aging Structures Including Hidden Damage Imaging," presented to the Aerospace Committee, NACE Conference, San Diego; CA, March 17-19, 2003.
SC	AT3	Technical paper titled "Remote Temperature and Stress Monitoring Using Low Frequency Inductive Sensing," presented at the SPIE NDE/Health Monitoring of Aerospace Materials and Composites, San Diego, CA, March 2-6, 2003.
SC	AU3	Technical paper titled "In-Situ Crack Detection and Depth Discrimination for Coated Turbine Blade Contact Faces," presented at the ASNT Spring Conference, Orlando, Florida, March 10-14, 2003.

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SC	AV3	Technical paper titled "Nondestructive Evaluation for CBM and PHM of Legacy and New Platforms," presented at 57th MFPT Conference, Virginia Beach, VA; April 2003.
SC	AW3	Technical paper titled "Eddy Current Sensor Networks for Aircraft Fatigue Monitoring," Materials Evaluation, July 2003, Volume 61, No. 7.

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